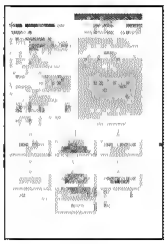
The Delphion Integrated View

Title: **JP63004047A2: HIGH-TENSILE STEEL FOR OIL WELL EXCELLENT IN SULFIDE CRACKING RESISTANCE**

Derwent Title: Sulphide corrosion resistant, high strength steel for oil well - contains carbon, silicon, manganese, chromium, molybdenum, titanium, aluminium, boron, zirconium etc. [Derwent Record]



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Inventor: **KANEKO TERUO**;
IKEDA AKIO;

Assignee: **SUMITOMO METAL IND LTD**
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Abstract:

PURPOSE: To obtain a high-tensile steel for oil well excellent in sulfide cracking resistance by specifying a composition consisting of C, Si, Mn, Cr, Mo, Ti, Al, B, Zr, Hf, Nb, V, and Fe and by properly limiting the amounts of inevitable- impurity elements.

CONSTITUTION: The high-tensile steel for oil well excellent in sulfide cracking resistance has a composition which consists of, by weight, 0.15W0.45% C, 0.1W0.8% Si, 0.2W0.8% Mn, 0.2W<1.0% Cr, 0.1W0.8% Mo, 0.001W<0.010% Ti, 0.005W0.060% Al, 0.0001W0.0030% B, 0.01W0.15% Zr and/or 0.001W0.150% Hf, 0.01W0.15% Nb and/or 0.01W0.15% V, and the balance essentially Fe and further containing, if necessary, one or more kinds among 0.001W0.010% Ca and 0.001W0.030% rare earth elements and in which amounts of P, S, Cu, Ni, N, and O among inevitable impurities are limited to ≤0.01%, ≤0.005%, ≤0.15%, ≤0.05%, ≤0.0150%, and ≤0.0050%, respectively and, moreover, it is free from deterioration due to plastic deformation.

Family: None

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